



Facility Permit No: SLAS-83-04
Cooper Septic Tank Service
Permit to Operate
July 30, 2015
Page 1 of 4

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

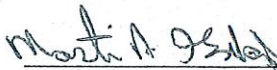
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Cooper Septic Tank Service
Emily & Randall Cooper
P.O. Box 645
Wagram, NC 28396

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-83-04** located on SR#1433 in Scotland County at approximate position 34.80669° N latitude and -79.36835° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 7/30/2015


Martin A. Gallagher, Supervisor
Composting & Land Application Branch
Solid Waste Section
Division of Waste Management, NCDENR

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Emily and Randall Cooper and approved by the Division of Waste Management. **The site consists of one field of 5.6 acres and is established in a permanent cover of bermuda.** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained by utilizing an alternative disposal location. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Emily and Randall Cooper in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50 foot buffer planted in bermuda and small grain should suffice. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.

7. **This site contains approximately 5.6 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 280,000 gallons may be applied to this site. The maximum application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the disposal field shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 5,384 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.

14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on July 30, 2016.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise. There is a 130' setback from the center line of SR#1433.



North Carolina Department of Environment and Natural Resources

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July 30, 2015

Emily & Randall Cooper
Cooper Septic Tank Service
P.O. Box 645
Wagram, NC 28396

RE: **SLAS permit issuance**
Cooper Septic Tank Service
SLAS-83-04
SR#1433 in Scotland County

Dear Ms. & Mr. Cooper:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Scotland County. Your application has been approved and your permit, # **SLAS-83-04**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **July 30, 2016**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist
Division of Waste Management, NCDENR

Enclosures

cc: files
Scotland County Health Department

h:\cla\septage\slasper\8304cl15p.doc

Fayetteville Regional Office
225 Green Street, Suite 714, Fayetteville, North Carolina 28301-5095
Main Phone: 910-433-3300 \ Internet: www.ncdenr.gov

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APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646



I. Site and Operator Information

1. Applicant

Address

Phone

Copper Septic Tank Service
P.O. Box 645
Wagram, NC 28396
910-369-2713

2. Contact person for site operation (if different from applicant):

Title or position

Address

Phone

Emily Cooper or Wardlaw Cooper
owner / operator
P.O. Box 645
Wagram NC 28396
910-369-45-2713

3. Landowner

Address

Emily Cooper and Randall Cooper
P.O. Box 645
Wagram, NC 28396

4. Site Location:

County Scotland

State Road Number

1433

Directions to site:

Turn off of Hwy 71 in Maxton in front of
Campbell's and take onto McGirt's Rd take that Rd
all the way to McGirt's Bridge Rd

5. Indicate whether request is: new ☒ renewal ☐ modification ☐

For a permit renewal or modification, provide the following information:

Existing site permit number: _____ permit expiration date: _____

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: _____ acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): Aberdeen Waste Water Treatment Plant SDTF 83-04
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks ☒
 - (b) Grease trap pumpings ☒
 - (c) Portable toilet waste ☐
 - (d) Commercial / Industrial septage ☐
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Add enough hydrated lime to raise the pH to 12 and hold for 1/2 hours for domestic (and hold for two hours for grease) prior to land application
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): following Nutrient Management plan applying material by spreading using a bull tongue from back of truck using spreader attachment Discharge from moving truck
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): all agricultural land

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Emily M Cooper Randall B Cooper
Signature***

11/25/14
Date

Emily M Cooper Randall B. Cooper
Print name

owner
Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.

Nutrient Management Plan For Septage Applications to Coastal Bermudagrass and Small Grains

Prepared for:
Woodrow Cooper Septic Service
P.O. Box 645
Wagram, NC 28396
(910) 318-3478

A. General Information

1. Sampling of septage for waste analysis, NCDA & CS soil sample for nutrient and metals to be done annually.

2. One field made up of three parcels is on this farm:

Parcel # 010251001008 is 7.91 acres

Parcel # 01025101017 is 2.362 acres

Parcel # 01025101016 is 1.11 acres

Total acres is 11.382 of which 7 acres is the septage application site.

3. Dominant soil series is Autryville (AuB).
4. Septage will not be applied where the site is untrafficable or a loaded truck leaves a depression 3 inches or greater and/or soil moisture is too great to adequately absorb the septage.

B. Crops to be grown and approximate planting and harvesting times.

1. The field of 11.382 acres will need to have hybrid bermudagrass sprigged in 2015 at a rate of 40-60 bushels per acre. Small grains will be overseeded in October or November at a rate of 100-120 lbs per acre. Prior to establishment, 1 ton of lime should be soil incorporated with additional lime added as needed per annual soil report. 40-60 pounds per acre of Nitrogen is recommended for establishment year. If septic application meets this requirement, then no additional Nitrogen is recommended. 60-90 pounds per acre of potassium is recommended for establishment year. If septic application meets this requirement, then no additional potassium is recommended.
2. Harvesting of the bermudagrass will be as needed, depending on weather conditions. Two to four cuttings per year are typically done when the grass reaches a height of approximately 12-18 inches. Harvesting of the small grains will be from March - May.
3. Records and amounts of round or square bales harvested from site will be kept, as will yields from the small grains after each harvest.

C. Nitrogen needs for crops grown

R.Y.E. = Realistic Yield Expectations

N application rate = suggested N application rate based on RYE for soil type

<u>Crop</u>	<u>R.Y.E.</u>	<u>N app rate</u>	<u>lbs/acre</u>
Small grains			
Wheat or Rye	1 ton/acre x	50 lbs/ton =	50
Hybrid bermudagrass	5.5 tons/acre x 49 lbs/ton =		269.5
Total possible N application for the one field =			319.5 lbs/acre

D. Relative application rates for the one field

<u>Month</u>	<u>Field</u>
January	Low
February	Low
March	Medium
April	High
May	Medium
June	High
July	High
August	Medium
September	Medium
October	Low
November	Low
<u>December</u>	<u>Low</u>

None = 0 gallons; Low = 5,000 gallons; Medium = 10,000 gallons; High = 15,000 gallons

NOTE: Cumulative application rate is not to exceed the permitted application rate. Annual application rate is not to exceed 50,000 gallons per acre.

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site using normal septage application equipment.

F. Additional Fertility Requirements

Additional nitrogen supplied will not exceed the Total N requirement of the crop. Phosphorus and potassium will be added in accordance with the soil test results for the crops grown.

G. Harvest of the crops and their use

1. The bermuda grass will be cut as hay and baled whenever it reaches approximately 12-18 inches in height or roughly every 4 to 6 weeks beginning in June. At least three harvests will be made from each field each year unless under drought conditions.
2. The small grains will be cut as hay and baled in March - May of each year.
3. A 30-day waiting period must be observed between the last application of septage and harvest.
4. The septage applied forage will be harvested by contracting a third party to cut and harvest the hay for animal feed.

H. Weed Control

1. Recommendations are to use diuron pre-plant to minimize weed germination. General broadleaf herbicides should be used as needed from June to September of establishment year to encourage stand establishment. After establishment year, broadleaf and grass herbicides should be used as needed.

I. Buffers

1. Buffers will be based on the publication Septage Management in North Carolina (see attached).
2. Soil erosion and runoff control plan - Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in bermuda and small grains, should suffice to prevent septage waste from migrating off of the fields. (More severe site conditions could require that soil erosion structures be installed before septage can be applied).

Submitted by:

Woodrow Cooper Septic Service

Signature: Emily M. Cooper

Date: 2/11/15

Signature: Randy B. Cooper

Date: 2/11/15

Plan prepared by:

Becky Spearman
Bladen County
Livestock Extension Agent
P.O. Box 249
Elizabethtown, NC 28337
910-862-4591
Email: becky_spearman@ncsu.edu

Date: 11-20-14

Signature: Becky Spearman

Date: 11-20-14

Randy Wood
Scotland County
Livestock Extension Agent
231 East Cronly St
Laurinburg, NC 28351

Randy Wood

11/20/14

AMENDMENT TO NUTRIENT MANAGEMENT PLAN

Areas that develop with less than 80% groundcover by bermuda will be re-sprigged with bermuda at a rate of 40 to 60 ⁸⁰⁰ lbs/acre bushels in 2nd week of April (months). Sufficient ground cover of the approved crop (Bermuda/small grains) is required for land application to occur.

Weed control may be needed in order to maintain 80% groundcover and to produce the realistic yield expectations for the approved cropstand. Weed control may be obtained through different methods (mowing or herbicides) or a combination of methods. For specific recommendations, proper identification of the weed or weeds is necessary. The local cooperative extension agent or regional agronomist may be contacted for advice.

The 30 day waiting period shall be observed between the last application of septage and harvest. This site is managed as one field and the required 30 day waiting period shall be followed by utilizing an alternative disposal location such as a wastewater treatment plant.

Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan, such as a disposal at a waste treatment plan should be in place. Land application of grease septage requires the availability of a permitted septage detention facility.

Emily M. Cooper
Signature

3-23-15
Date

Randall B. Cooper
Signature

3-23-15
Date

34.80669° N latitude
-79.36835° E longitude

SLAS-83-04

